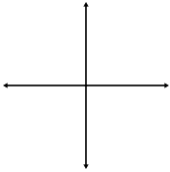


Secondary Math III
Radians
Assignment 6.3

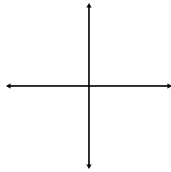
Name _____
Period _____

Graph the following angles in standard position.

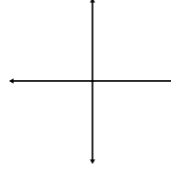
1. $\frac{5\pi}{4}$



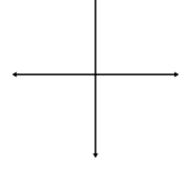
2. $\frac{4\pi}{3}$



3. $\frac{10\pi}{6}$



4. $\frac{-3\pi}{2}$



Find one positive and one negative angle that is coterminal with the given angle.

5. $-\frac{5\pi}{4}$

6. $\frac{\pi}{3}$

7. $\frac{5\pi}{6}$

Convert each degree angle to radians. Answer in exact form ... NO DECIMALS.

8. 60°

9. 225°

10. -135°

11. -75°

Convert each radian measure to degrees. Answer in exact form ... NO DECIMALS.

12. $\frac{\pi}{6}$

13. $\frac{\pi}{18}$

14. $-\frac{17\pi}{9}$

15. $-\frac{25\pi}{12}$

Find the measure of the reference angle for the given angles.

16. $\frac{5\pi}{3}$

17. $\frac{3\pi}{4}$

18. $-\frac{7\pi}{6}$

19. 3.51

Find the exact value of the following. Remember quadrant and reference angles?

20. $\sin \frac{2\pi}{3}$

21. $\cos \frac{7\pi}{4}$

22. $\tan \frac{5\pi}{6}$

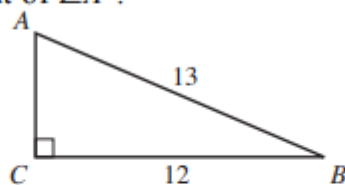
23. $\sin \frac{5\pi}{4}$

24. $\cos \frac{7\pi}{6}$

25. $\tan \frac{\pi}{3}$

Practice ACT:

26. In the right triangle below, the length of \overline{AB} is 13 units and the length of \overline{CB} is 12 units. What is the tangent of $\angle A$?



- A. $\frac{12}{5}$
- B. $\frac{13}{12}$
- C. $\frac{12}{13}$
- D. $\frac{5}{12}$
- E. $\frac{5}{13}$